

Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

Dresden, 2025-08-07

TarisIR® mini – When Size Matters!

The latest model in InfraTec's compact camera series impresses with excellent image quality and smallest dimensions.

The TarisIR® mini is the latest radiometrically calibrated infrared camera in InfraTec's portfolio. It is designed for universal use and – with the associated IRBIS® software – enables entry-level access into stationary thermography at an excellent price-performance ratio. Based on an uncooled microbolometer FPA detector of the latest generation in the format (640 × 480) IR pixels and a pixel pitch of only 12 µm, the camera, in combination with the high thermal resolution of 20 mK, achieves an image quality with exceptionally sharpness of detail that has never been achieved before in this camera segment.

The extremely small and robust light metal housing and the lightweight design of the camera module enable simple integration. In system environments with installation situations with limited space, high dynamic loads and adverse environmental conditions, small size and lightweight design are key – and the TarisIR® mini offers both! Depending on the application, the module can be combined with different lenses and thus optimally configured to suit the measuring task. The IP67 protection degree on the lens frontside facilitates integration even in adverse application conditions. The radiometric compact camera is characterised by very low power consumption and can be conveniently supplied with power via Ethernet (PoE).

Application Areas for the TarisIR® mini

Designed for uncompromising continuous operation, the TarisIR® mini provides reliable thermographic real-time image data that can be operated in any position with a full-frame rate of up to 50 Hz. The camera measures in the long-wave atmospheric window of (8 ... 14) µm, making it well suited for monitoring applications in outdoor areas. Algorithms specially developed for this detector technology in combination with a very comprehensive and sophisticated calibration process ensure precise results with a measurement accuracy of 2 %, even under difficult measurement conditions.

Thanks to the individual configurability and extremely small design TarisIR® mini is predestined for use in OEM solutions. It can be easily integrated into machines, systems and devices for monitoring and measuring tasks in process optimisation and quality assurance. The GenICam compatibility and included Software Development Kit (SDK) make this significantly easier.

The modern interface concept of the TarisIR® mini enables convenient camera control and data acquisition. Recordings can be saved and processed on a PC in real time at frame rates of up to 50 Hz via the GigE interface.

Information: 2,439 characters (incl. spaces)

About InfraTec

The InfraTec infrared sensor and measurement technology company was founded in 1991 and has its headquarters in Dresden, Germany. The privately held company employs more than 240 employees and has its own design, manufacturing and distribution capabilities.

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With its infrared measurement business unit, InfraTec is one of the leading suppliers of commercial thermal imaging technology. In addition to the high-end camera series ImageIR® and the camera series TaxisIR® and VarioCAM® High Definition, InfraTec offers turnkey thermographic automation solutions e. g. for industry processes, non-destructive testing and fire detection and prevention.

The infrared sensor division produces custom-made components – especially pyroelectrical infrared detectors – for clients worldwide. The product range includes analogue single and multi-channel detectors as well as digital multi-channel detectors (PyriQ). The detectors are used, for example, in gas analysis, fire and flame sensors and spectroscopy.

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The TaxisIR® mini compact camera fits in one hand.

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